Sreyas Innovation and Startup Council

Goal:

Sreyas wants to become the best in class facilitator in terms of being an enabler for the Innovators and Entrepreneurs. Sreyas Innovation Council's first objective is to nurture creativity and innovation within the Sreyas community; it has been designed to act as a catalyst of change for the whole of the society.

The Vision

"To be a resource, guidance and motivation center in Sreyas, where successful entrepreneurs are created and nurtured."

The Mission

"To prepare the engineering graduates to be successful entrepreneurs who have the necessary skills, knowledge and attitude to create, manage and expand, future enterprises."

Objectives

1. To foster innovation and create an entrepreneurial culture in the organization.
2. To organize entrepreneurs awareness camps, entrepreneurial development programs and faculty development programs for the benefit of faculty & graduates in the region.
3. To promote rural entrepreneurship and educating the rural business folk in different business related aspects.
4. To adopt entrepreneurship development curriculum along with academic programs.
5. To guide and assist prospective entrepreneurs on various aspects such as project report preparation, obtaining project approvals, loan and other facilities from the related agencies.
6. To act as regional information center on entrepreneurship development opportunities

7. To conduct the skill development training programs leading to self-wage employment.
8. To organize idea generation fests periodically.
9. To arrange visits to industries for prospective entrepreneurs
10. To promote linkages with Industries and other organizations that is engaged in promoting Small & Medium Enterprises (SMEs)
11. To conduct market research for identifying Entrepreneurial opportunities.
12. To organize guest lectures by well known entrepreneurs.
13. To provide consultancy services to Prospective Entrepreneurs
14. To integrate the entrepreneurial activities across various centers, departments, faculties, within the organization.

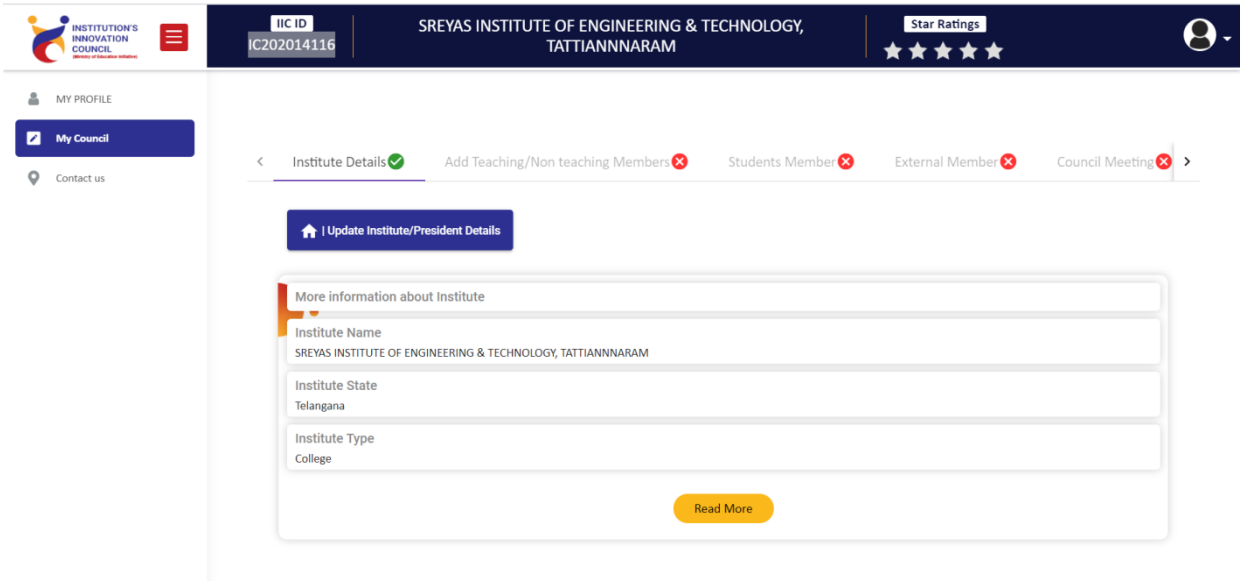
Committee for Sreyas Institute Innovation and Start up Policy 2020

Name	Designation
Dr. Suresh Akella Principal, SIET	Chairman
Mr. Prashant Lingam Entrepreneur , Bamboo House India	Member
Dr. Rajanikanth Aluvalu Co-Ordinator for VCIE, HoD CSE, Vardhaman College Of Engineering	Member
Dr. GVK Reddy Professor, Vardhaman College Of Engineering	Member
Mr. K C Chowdary Asst. Director at Ministry of MSME, Govt. of India	Member
Dr. Kantipudi MVV Prasad Director Of Advancement, SIET	Member
Dr. Sandeep Kumar Dean R&D , SIET	Member
Ms.Sureka K Academic Co-Ordinator, SIET	Member
Dr. Surya Narayana G Professor, SIET	Member
Prof. Harsha	Member

Professor, SIET	
Mr. Dileep Seshu Student Co-Ordinator, EDC,SIET MD of Staunch	Student Member
Mr. Sreyas Reddy, CEO, Inflooo	Alumni Student Member
Mr. Surya Teja Entrepreneur	Alumni Student Member
Mr. Ranveer Nimkar CEO , NeemIIT	Alumni Student Member

Nominated NISP Faculty Co-Ordinator: Dr. Kantipudi MVV Prasad

Institution Innovation Council ID: IC202014116



Center for Signal Processing and Communication Systems (CSPCS)

About the Center:

The Center has started its functioning in its state-of-the-art Signal Processing and communication Systems Laboratory equipped with all the modern tools set at par with any national research center. Apart from carrying out frontier research in the areas mentioned above, the center aims at creating technologies that can be commercially exploited by industries. The Center is also engaged in an ambitious plan for generating high caliber manpower and entrepreneurs in the field of Signal Processing and communication Systems.

The key aim of center is to attract and tap the top class talent to carryout frontier research in Signal Processing and communication Systems. The COE is expected to contribute to the training of R&D manpower for industry. To achieve this there is need to recruit research scholars at least twice in a year i.e. in every semester through thorough competitive environment.

Establishment: January 2019.

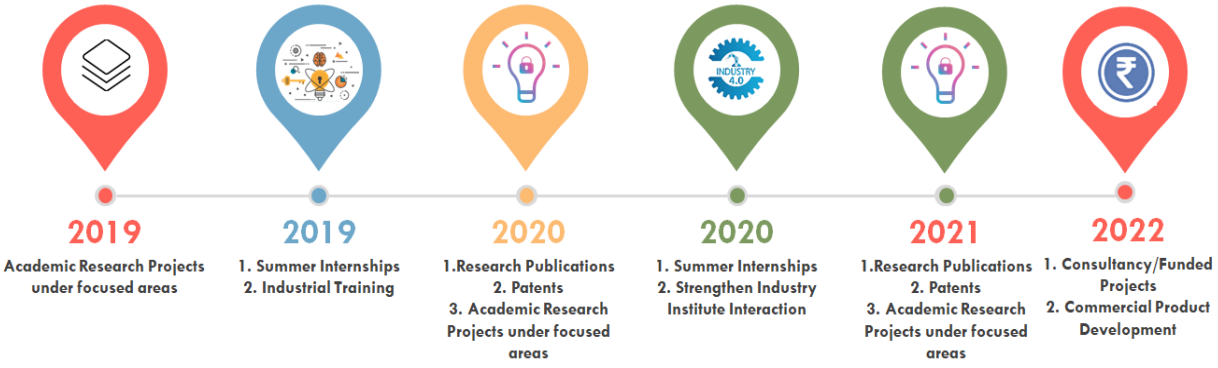
Motivation: To provide high-quality graduate and postgraduate training environment for the next generation of researchers and support innovation-based endeavours.

Aim: To promote a culture of research amongst the students and faculties.

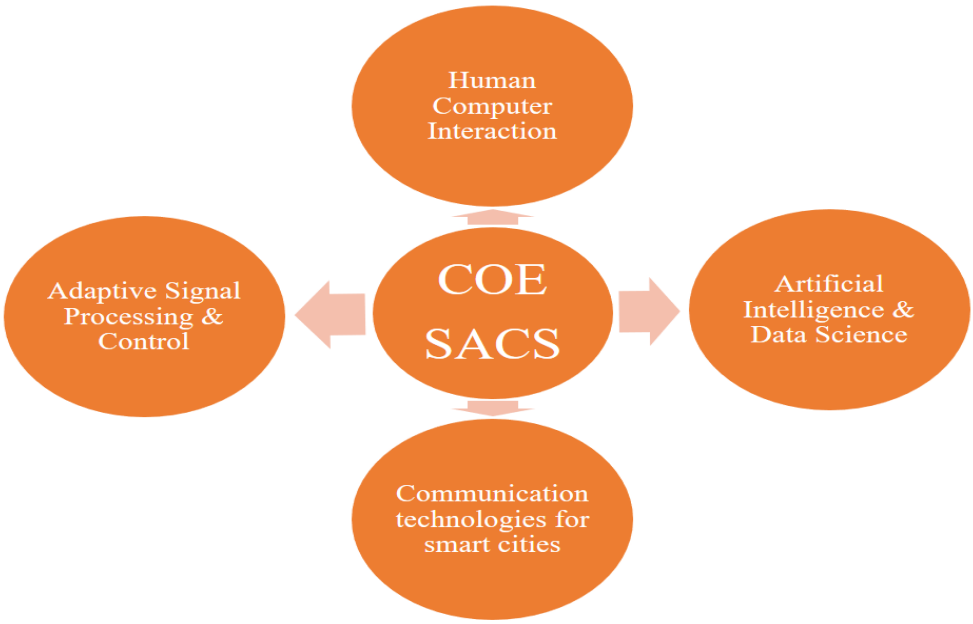
Objectives:

- To Promote Research Activities
- To Encourage Research Publications, Patents/IPR
- To Facilitate Consultancy/Funded Projects
- To Provide Industrial Training
- To Develop Commercial Products
- To Strengthen Industry Institute Interaction
- To Provide platform to students to interact with industry experts

Roadmap up to 2022:



Areas and Expertise:



Team: Internal

SREYAS

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dr. Kantipudi MVV Prasad
Email: mvvprasad@sreyas.ac.in, mvvprasad.kantipudi @gmail.com
Contact Number: +91 9586408854
Research Areas: Signal Processing, Communication Theory, Education & Research
Research Statistics:
Total Citations: 32 | H-Index: 3 | i10-Index : 1

Mr. B Sreenivasu
Email: sreenivasu.b@sreyas.ac.in
Contact Number: +91 9502251564
Research Areas: Communication Systems
Research Statistics:
Total Citations: | H-Index: | i_{10}-Index :

Dr. N. Murali Krishna
Email: muralikrishna.n@sreyas.ac.in
Contact Number: +91 9885837535
Research Areas: Image Processing , Pattern Recognition
Research Statistics:
Total Citations: | H-Index: | i10-Index :

Dr. Sandeep Kumar
Email: drsandeep@sreyas.ac.in, er.sandeepsahratia@gmail.com
Contact Number: +91 8247322147
Research Areas: Digtal Image Processing, Biometrics, Embedded System and IOT
Research Statistics:
Total Citations: 17 | H-Index: 3 | i10-Index : 0
*Based on Google Scholar Profile

Mr. K.MANOHAR
Email: manohar@sreyas.ac.in, manohar646@gmail.com
Contact Number: +91 9010858595
Research Areas: Signal Processing, Image Processing and Communication Systems
Research Statistics:
Total Citations: | H-Index: | i_{10}-Index :

Ms. Sanjana Mathew
Email: sanjana.m@sreyas.ac.in, mathewb51.sanjana@gmail.com
Contact Number: +91 7337034387
Research Areas: Image processing, Signal Processing, Communication Theory
Research Statistics:
Total Citations:| H-Index: | i10-Index :

Dr. C. John Moses
Email: johnmoses.c@sreyas.ac.in, erjohnmoses @gmail.com
Contact Number: +91 7339104796
Research Areas: Image Interpolation, Image Registration, VLSI Front-end design of Signal processing circuits and Computer Architecture.
Research Statistics:
Total Citations: 34 | H-Index: 4 | i10-Index : 2
*Based on Google Scholar Profile

Mrs. Adapa Sowjanya
Email: sowjanya.a@sreyas.ac.in, career.sowjanya @gmail.com
Contact Number: +91 9160477897
Research Areas: Signal Processing, Image Processing, Embedded systems
Research Statistics:
Total Citations: | H-Index: | i_{10}-Index :

Ms. K. Sonali Swaroop
Email: sonali.k@sreyas.ac.in, sonali.swaroop92@gmail.com
Contact Number: +91 8500956679
Research Areas: Signal Processing, Speech processing
Research Statistics:
Total Citations: | H-Index: | i10-Index :

Mrs. Praveena A
Email: praveena.a@sreyas.ac.in, praveena.alladi@gmail.com
Contact Number: +91 7386027171
Research Areas: Signal Processing, Communication Antennas
Research Statistics:
Total Citations: 1 | H-Index: 1 | i10-Index : 0
*Based on Google Scholar Profile

Mrs. Hemlata Dalmia
Email: varshaagarwal@sreyas.ac.in, dalmiahemlata @gmail.com
Contact Number: +91 9014224949
Research Areas: Signal Processing, Embedded System, VLSI, and IOT
Research Statistics:
Total Citations: 04 | H-Index: | i10-Index : 0
*Based on Google Scholar Profile

Mrs. Neha Anjum
Email: nehaanjum@sreyas.ac.in
Contact Number: +91 9483870668
Research Areas: Digital Electronics and Communication Systems
Research Statistics:
Total Citations: 1 | H-Index: 1 | i10-Index : 0
*Based on Google Scholar Profile

Dr. V. A. Sankar Ponnapalli
Email: sankar.p@sreyas.ac.in
Contact Number: +91 8125550684
Research Areas: Antennas, EMI/EMC, & Engineering Education Research
Research Statistics:
Total Citations: 30 | H-Index: 3 | i10-Index : 1
*Based on Google Scholar Profile

Team: External

Dr.D.Selvathi (MEPCO SEC)
Email: dselvathi@mepcoeng.ac.in, selvathi_d@yahoo.com
Contact Number: +91 9486026366
Research Areas: Image Processing, Soft Computing, Artificial Intelligence, Optimization Techniques
Research Statistics:
Total Citations: 508 | H-Index: 11 | i10-Index : 15

Dr. Praveen N (Ibra College of Technology,Oman)
Email: praveenn@ict.edu.om, praveenibra@gmail.com
Contact Number: +968-94237372
Research Areas: Signal Processing, Digital Systems, Control Theory
Research Statistics:
Total Citations: | H-Index: | i10-Index :

Dr. RajaniKanth Aluvalu , (Secretary, IEEE CS Hyd)
Email: rajanikanth.aluvalu@gmail.com
Contact Number: +91 9978967155,7995724790
Research Areas: Cloud Computing, Data Mining, Big Data analytics, Teaching & Learning
Research Statistics:
Total Citations: 100 | H-Index: 05 | i10-Index : 03

Dr M A . Jabbar (Vice Chair, IEEE CS Hyd)
Email: jabbar.meerja@gmail.com, akhiljabbar@ieee.org
Contact Number: +91 9912648686
Research Areas: Artificial Intelligence, Machine Learning, Intrusion Detection System, Attack Graphs
Research Statistics:
Total Citations: 521 | H-Index: 14 | i10-Index : 14

Dr. Pradeep Kumar N.S., (SEACET)
Email: pradii123@gmail.com
Contact Number: +919739048542, +91 9110235616
Research Areas: Signal Processing, Communication Theory
Research Statistics:
Total Citations: 15| H-Index: 02 | i10-Index : 0

Dr. V.I.George, Manipal Institute of Technology
Email : vi.george@manipal.edu
Contact Number: +91 9448548101
Research Areas: Robust Control Systems, Aerospace Control Applicatons
Research Statistics:
Total Citations: 378 | H-Index: 09 | i10-Index : 09

Prof. Sanjay Prajapati , Gujarat
Email: sanjayprajapati75@gmail.com, sanjayprajapati75@ldce.ac.in
Contact Number: +91 9725004130
Research Areas: VLSI, Spintronics, Education & Research
Research Statistics:
Total Citations: 17 | H-Index: 01 | i10-Index : 1

Activities:

- Conducted Scilab Coordinators Workshop in association with IIT Bombay as part of NMEICT – April 2019
- Scilab Workshop for faculty in association with IIT Bombay as part of NMEICT – May 2019.
- One day hands on workshop on 3D- Electromagnetic Simulation Tool
- Two Patents filed based on quantum of project work carried out at our R&D Laboratories.
- Conducted Python Coordinators Workshop in association with IIT Bombay as part of NMEICT – May 2019
- Python Workshop for faculty in association with IIT Bombay as part of NMEICT- June 2019.
- Completed Basic Simulation Laboratory Migration Project /FLOSS with IIT Bombay successfully. (Docs Available @ https://scilab.in/lab_migration_run/204)
- Completed Analog & Digital Communication Laboratory Migration Project /FLOSS with IIT Bombay successfully. (Docs Available @ https://scilab.in/lab_migration_run/235)
- Conducted Linux Coordinators Workshop in association with IIT Bombay as part of NMEICT – August 2019
- Linux Workshop for faculty in association with IIT Bombay as part of NMEICT- August 2019.
- Organised an Online session on Machine Learning & Deep Learning Concepts Using Scilab (Resource Person Jess. Kaw from Malaysia) – September,2019.
- Conducted Arduino Coordinators Workshop in association with IIT Bombay as part of NMEICT – Jan 2020
- Arduino Workshop for faculty in association with IIT Bombay as part of NMEICT- Feb 2020
- Conducted C&Cpp Coordinators Workshop in association with IIT Bombay as part of NMEICT – Feb 2020
- C&Cpp Workshop for faculty in association with IIT Bombay as part of NMEICT- Feb 2020 .

- Conducted a one day workshop on Introduction to Data Science & IoT Under IEEE Banner. 27th Feb, 2020
- Initiated Spoken Tutorial workshops/Certification programs for all the students of Sreyas.
- Completed Courses (Training & Certification)
  - Course: Arduino (07 Members got certification Out of 11)
  - Scilab
  - Python 4.0.3
  - C & Cpp
  - Java
- Recognized as NODAL RESOURCE CENTRE for SPOKEN TUTORIALS for Telangana Region by IITB.
- One Day Orientation Workshop on Virtual Labs for faculty and students – September,2019.
- Established VLabs Nodal Center – September,2019.
- VLSI Chip Design Hands on using Open Source EDA (24 Faculty Members were Trained)
- AI and Machine Learning (44 Faculty Members + 12 UG Research Scholars were Trained)
- Natural Language Processing (47 Faculty Members + 12 UG Research Scholars were Trained)
- ICT Tools for Teaching, Learning Process & Institutes. (47 Faculty Members)
- Theory, Operation and Applications of Transducers & Actuators in Industry (21 Faculty Members were Trained)
- Organized an International Conference on Recent Trends in Engineering Technology and Management April-2020
- Virtual research Internship During Covid-2019

Infrastructure:

Computer Systems (30 no) with internet connection

Softwares:

Open Source Softwares (Scilab, Python, SciPy, Java)

Licenced Softwares (MATLAB)

Completed Student Projects

1. Multi-layered Antenna design for smart city applications
2. Efficient recognition and stratification of foliage detection
3. Design Of E-Patch Antenna

Approved Laboratory Proposals under IIT Bombay Lab Migration Project /FLOSS

Name Of the Laboratory	Name of the Faculty	Solution Provided By Faculty	Status
1. Basic Simulation Laboratory	Dr. Kantipudi MVV Prasad	Yes	Completed Docs Available Here
2. Analog and Digital Communications Laboratory	Prof. Shaik Aqeel	Yes	Completed Docs Available Here
3. Microprocessor Laboratory	Prof. Praveena A	Yes	Ongoing
4. Satellite Communication	Prof. Adapa Sowjanya	Yes	Ongoing
5. Analog Communications	Prof. Sanjana Mathew	Yes	Completed Docs Available Here

6. Radiation Pattern Measurement of Array Antennas	**Dr. V. A. Sankar Ponnapalli**	**Yes**	**Completed** **Docs Available Here**
7. Digital Signal Processing	**Prof.Manohar K**	**Yes**	**Completed** **Docs Available Here**

Patents Published:

1. "Design E-patch antenna using CST Microwave Studio", Indian Patent/201941018166
2. "Multi-layered Antenna Design for Smart City Applications", Indian Patent/201941016919

Research Publications:

Published:

1. "Multi Layered Antenna Design for Smart City Applications", 2nd Smart Cities Symposium on 24th -26th March 2019 at Zain - eLearning Center, University Of Bahrain, Kingdom Of Bahrain.

Accepted for free Publications: (Scopus Indexed)

1. Smart Transportation System in the context of IoT based Smart City, SCS2020, UOB.

2. Hybrid Sensor-Based Traffic Monitoring And Managing Urban Areas In Hyderabad, SCS2020, UOB.

3. Future Challenges for Cyber-Security in a Smart City Environment in Indian Context, SCS2020, UOB.

4. FPGA Implementation Of Area- Efficient Adaptive Lagrange Image Scaling Processor, ICTEST 2020.

5. Pandemic Stabilizer, DASA'20, University Of Bahrain.

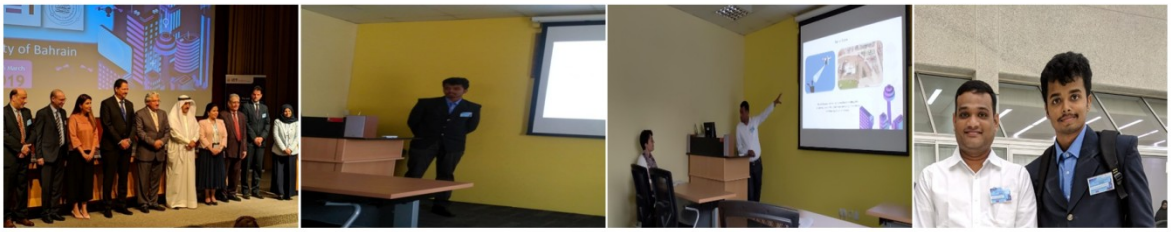
6. Deep Learning Applications in Auto-Mobiles, SCS2020, UOB.

7. Renewable energy sources for smart city Applitions: A review, SCS2020, UOB.

8. Multi-layered Swastika Shape Antenna Patch Design for GSM and WiMAX Applications, SCS2020, UOB.

9. Investigations on VLSI Architectures of Booth Multiplication Algorithms, IJCDS.

Event Pictures:



Mr. Satyanarayana and Dr. Kantipudi MVV Prasad presented their research work at University Of Bahrain, Kingdom Of Bahrain.

R&D Showcase 2019 @ IIIT Hyderabad

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Sreyas & IIT Bombay

Workshop on Scilab Using
AVIEW technology through internet
Supported by MHRD, Govt.of India
RCID: 1533

NBA NATIONAL BOARD OF ACCREDITATION
NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
SREYAS
IEEE SREYAS STUDENT BRANCH
CENTER FOR SIGNAL PROCESSING & COMMUNICATION SYSTEMS
Sreyas UG Research Scholars Presenting their Research Work at 3rd SMART CITIES SYMPOSIUM, on 21st -23rd September 2020, University of Bahrain
UG Research Scholars
Smart Transportation System in the context of IoT based Smart City
B.Prudhvi Raj
M.S.C.Durga Prasad
Final Year(2016-2020)
Deep Learning Applications in Auto-Mobile
G.Eswar
L.Mythreyi
K.Vedavathi
V.Balraj
Final Year(2016-2020)
Renewable Energy Sources for Smart City Applications
K.Sravya
M.Himaja
K.Prapti
Third Year(2017-2021)
Faculty Contributors
Dr. Kantipudi MVV Prasad
Associate Professor
Dr. C John Moses
Associate Professor
Heartfelt Congratulations on your Achievement

SREYAS
CENTER FOR SIGNAL PROCESSING & COMMUNICATION SYSTEMS
Sreyas UG Research Scholars Presenting their Research Work at
The International Conference on Decision Aid Sciences and Applications
(DASA'20) 8th – 9th November 2020 , University of Bahrain
UG Research Scholars
Pandemic Stabilizer
Ritu Dhull
Deepala Vineeth
Chava Dheeraj
Gaurav Samudrala
Mudigonda.V. Bhargav
Hearty Congratulations to All!

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IEEE SREYAS STUDENT BRANCH
Sreyas UG Research Scholars Presenting their Research Work at
International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE 2020)
on 09th -10th October 2020, REVA University, Bengaluru, India.
UG Research Scholars
Emotion Recognition Through Speech Signal Using Python
M.Aravind Rohan
B.Mounika
K.Renuka
S.Nivas
Design and Implementation of No Cooperative Frequency Detection for Cognitive Radio Application
G.Sai Preethi
K.Gouthami
V.Vennela
Joyo : The House Assistant Technology for Smart Home
M.Manish Gupta
B.Pavani
C.Deepak Reddy
Leaf Disease Detection and Classification based on Machine Learning
A.Srilekha
B.Pranav Rao
J.N.Vamshi Krishna
Network Design and Implementation of Dynamic Routing Protocols Using Packet Tracer
P.Bramarambika
V.Sai Santosh
M.Vamshidhar Reddy
Faculty Contributors
Dr.Sandeep Kumar
Associate Professor
Dr.K.M.V.V Prasad
Associate Professor
Dr.John Moses
Associate Professor
A.Praveena
Assistant Professor
K.Narasimha
Assistant Professor
K.Sonali Swaroop
Assistant Professor
P.Sireesha
Assistant Professor
T.Suman
Assistant Professor
Heartfelt Congratulations to all!

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Dept.of ECE

Center for Signal Processing & Communication Systems

Year of Inception : 2019

Focussed Areas : HCI,AI&ML,ASPC, Smart City Infra.

Training Programmes Conducted for Students: 08

Training Programmes Conducted for Faculty: 10

Lab Migration Projects approved by IIT Bombay: 08

No of Patents Filed:03

No of Publications :13

No of Industry & Academic Partners : 04

Student Registrations Open for 2020

More Details Contact Dr.Kantipudi MVV Prasad

Email: mvvprasad@sreyas.ac.in

Objectives of COE:

- To Promote Research Activities
- To Encourage Research Publications, Patents/IPR
- To Facilitate Consultancy/Funded Projects
- To Provide Industrial Training
- To Develop Commercial Products
- To Strengthen Industry Institute Interaction
- To Provide platform to students to interact with industry experts

SMARTBRIDGE
Let's Bridge the Gap

CSPCS Co-Ordinator: Dr.Kantipudi MVV Prasad

Working In Charge: Prof. S. Swapna

Student Co-Ordinator: Vemuri Anusha

Email: cspcs@sreyas.ac.in